



US 20020025801A1

(19) **United States**(12) **Patent Application Publication**
Yang(10) **Pub. No.: US 2002/0025801 A1**(43) **Pub. Date: Feb. 28, 2002**(54) **METHOD FOR SUPPORTING MULTI-CALL
WHEN INTERWORKING BETWEEN UTRAN
AND SYNCHRONOUS CORE NETWORK IN
IMT-2000 SYSTEM**(76) **Inventor: Shin-Hyun Yang, Seoul (KR)**Correspondence Address:
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NEW YORK, NY 10112**(21) **Appl. No.: 09/861,361**(22) **Filed: May 18, 2001**(30) **Foreign Application Priority Data**

Aug. 31, 2000 (KR)..... 2000-51257

Publication Classification(51) **Int. Cl.⁷ H04M 3/42**(52) **U.S. Cl. 455/416; 455/426; 455/414**(57) **ABSTRACT**

A method for supporting a multi-call in an IMT-2000 system providing a plurality of services including a voice communication service, a moving picture service and a radio internet service, wherein the IMT-2000 system includes one or more mobile stations, one or more radio networks and one or more core networks includes the steps of: in response to a call request of the mobile station, transmitting an origination message to the radio network; generating a CM service request message based on the origination message and transmitting the CM service request message to the core network; determining whether the call request is an initial call request or an additional call request based on the CM service request message, wherein the additional call request means a request of an additional traffic channel for using other service; generating one or more traffic channels for the mobile station; and storing a first identity for the mobile station and a second identity for an assigned traffic channel in a storage unit.

